## Claims

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- 1. An apparatus comprising a holder (2) for a doctor blade and a blade (1) to be fitted in the holder, characterized in that the holder (2) and/or the blade (1) comprises a composite material, on whose surface or on a part of whose surface a ceramic coating (6) has been made.
- An apparatus as claimed in claim 1, characterized in that the composite material comprises a fibre-reinforced thermosetting or thermoplastic resin, preferably a thermosetting or thermoplastic resin reinforced with carbon fibre, fibre glass or boron fibre.
  - 3. An apparatus as claimed in claim 1 or 2, characterized in that an anchor structure (5) is embedded in the composite material or fixed to the surface of the composite material, which anchor structure may be made of a metal wire, wire mesh, a metal strip, metal foil, a metal powder, combinations of metal and plastic, a plastic-ceramic powder, a ceramic powder or a combination of these in order to fix the ceramic coating (6) and/or an intermediate layer (7).
- 4. An apparatus as claimed in any one of claims 1 to 3, characterized in that the ceramic coating (6) comprises Al<sub>2</sub>O<sub>3</sub>, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, ZrO<sub>2</sub> or combinations of them, and the intermediate layer (7) comprises a metal, preferably an Al- or Ni-based metal.
- 5. A doctor blade (1), characterized in that the blade (1) comprises a composite material on whose surface or on a part of whose surface a ceramic coating (6) has been made.
- 6. A doctor blade (1) as claimed in claim 5, characterized in that the composite material comprises a fibre-reinforced thermosetting or thermoplastic resin, preferably a thermosetting or thermoplastic resin reinforced with carbon fibre, fibre glass or boron fibre.

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- 7. A doctor blade (1) as claimed in claim 5 or 6, characterized in that an anchor structure (5) is embedded in the composite material or fixed to the surface of the composite material, which anchor structure may be made of a metal wire, a metal strip, wire mesh, metal foil, a metal powder, combinations of metal and plastic, a plastic-ceramic powder, a ceramic powder or a combination of these in order to fix the ceramic coating (6) and/or an intermediate layer (7).
- 8. A doctor blade (1) as claimed in any one of claims 5 to 7, characterized in that the ceramic material comprises Al<sub>2</sub>O<sub>3</sub>, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, ZrO<sub>2</sub> or combinations of them, and the intermediate layer (7) comprises a metal, preferably an Al- or Ni-based metal.
- 9. A blade holder (2), characterized in that the holder (2) comprises a composite material, on whose surface, partly or wholly, a ceramic coating (6) has been made.
- 10. A holder (2) as claimed in claim 9, characterized in that the composite material comprises a fibre-reinforced thermosetting or thermoplastic resin, preferably a thermosetting or thermoplastic resin reinforced with carbon fibre, fibre glass or boron fibre.
- 11. A holder (2) as claimed in claim 9 or 10, characterized in that the holder (2) comprises a composite material on whose surface or on a part of whose surface a ceramic coating (6) has been made.
- 25 12. A holder (2) as claimed in any one of claims 9 to 11, characterized in that the ceramic coating (6) comprises Al<sub>2</sub>O<sub>3</sub>, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, ZrO<sub>2</sub> or combinations of them, and an intermediate layer (7) comprises a metal, preferably an Al- or Ni-based metal.
- 30 13. A holder (2) as claimed in any one of claims 9 to 12, characterized in that the inside of the holder (2) is coated with a ceramic.

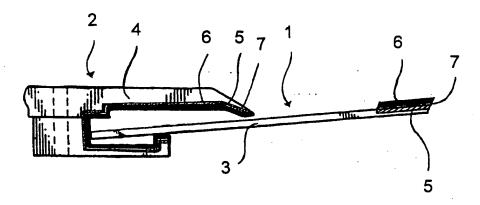


Fig. 1

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/00459

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A. CLAS	SSIFICATION OF SUBJECT MATTER		
According	D21G 3/00 to International Patent Classification (IPC) or to both n	ational classification and IPC	
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	documentation searched (classification system followed by	y classification symbols)	
	D21G, B41F, B05C		
	ation searched other than minimum documentation to the	e extent that such documents are inclu	ded in the fields searched
	FI,NO classes as above		
Electronic d	data base consulted during the international search (name	e of data base and, where practicable,	search terms used)
EDOC,	WPI, FULLTEXT		
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
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Y	JP 5338048 A (TEIJIN LTD) 1993-	1-13	
·	Derwent Publications, Ltd. 1999-10-06). Retrieved from DW 199404, Accession No. 199 & JP 5338048 (TEIJIN LTD) 1990-1999-1999-1999-1999-1999-1999-1999		
. <b>A</b>	US 5408720 A (ALAN A. MILES), 25 (25.04.95)	1-4,9-13	
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Citation of document, with indication, where appropriate, of the relevant	vant passages	Relevant to claim N
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Information on patent family members

International application No.

30/08/99

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Form PCT/ISA/210 (patent family annex) (July 1992)